

## **IN THE CLAIMS**

Please cancel Claim 1 and add new Claims 2-48.

This listing of claims will replace all prior versions, and listings, of claims in the application:

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--1. (Cancelled)

2. (New) A remote management system comprising:

a computer workstation including a keyboard, cursor control device and

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video display;

at least one remote device for producing video signals;

a remote management unit coupled to said workstation and said at least one remote device;

first communication means for providing bi-directional communication

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between said remote management unit and said workstation; and

second communication means for providing bi-directional communication

between said remote management unit and said at least one remote device;

wherein said remote management unit enables serial and/or keyboard, video,

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mouse (KVM) control of said at least one remote device.

3. (New) A system according to claim 2, wherein said workstation controls a power source of at least one of said at least one remote device through said remote management unit.

4. (New) A system according to claim 2, wherein access to said remote management unit by said workstation is controlled by unique passwords or authentication information.
5. (New) A system according to claim 2, wherein said remote management unit  
5 includes at least one redundant power supply.
6. (New) A system according to claim 2, wherein said remote management unit includes at least one option menu circuit.
- 10 7. (New) A system according to claim 6, wherein said option menu circuit produces an option menu including identification of said at least one remote device.
8. (New) A system according to claim 2, wherein said remote management unit includes at least one header circuit for selective communication between at least one  
15 KVM port of said remote management unit and at least one video port of said at least one remote device.
9. (New) A system according to claim 8, wherein said header circuit includes a video switch, and at least one receiver transmitter circuit, wherein said receiver  
20 transmitter circuit converts parallel and serial signals.
10. (New) A system according to claim 2, wherein said remote management unit includes at least one framer grabber circuit for digitizing video signals.

11. (New) A system according to claim 10, wherein said framer grabber circuit converts analog video signals to digital video signals.

12. (New) A system according to claim 2, wherein said remote management unit  
5 includes a frame grabber circuit for correcting an image produced by said video signals.

13. (New) A system according to claim 2, wherein said remote management unit includes at least one local KVM port.

10 14. (New) A system according to claim 2, wherein said remote management unit includes at least one video processor circuit for compressing video signals.

15. (New) A system according to claim 14, wherein said video processor circuit includes at least one video receiving circuit for receiving video signals from at least one  
15 CPU.

16. (New) A system according to claim 14, wherein said video processor circuit includes at least one pixel pusher circuit for storing red, green and blue video signal components of said video signals.

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17. (New) A system according to claim 15, wherein said video processor circuit includes at least one frame buffer circuit for storing video frames indicative of said video signals.

18. (New) A system according to claim 14, wherein said video processor circuit compresses video signals using Joint Bi-level Image experts Group (JBIG) compression.

19. (New) A system according to claim 15, wherein said video processor circuit  
5 includes at least one microprocessor for controlling at least one of a frame buffer circuit, pixel pusher circuit and JBIG compression.

20. (New) A system according to claim 19, wherein said video processor circuit includes at least one memory circuit coupled to said microprocessor for storing data.  
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21. (New) A system according to claim 14, wherein said video processor circuit includes at least one switch for outputting video signals .

22. (New) A system according to claim 2, wherein said remote management unit  
15 includes at least one modem module for demodulating signals received by a modem.

23. (New) A system according to claim 2, wherein said first or second communication means is selected from the group consisting of a LAN, a WAN, a wireless connection, a modem, a direct modem connection, and the Internet.  
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24. (New) A system according to claim 2, wherein said remote management unit includes reset circuitry controllable by said workstation for resetting said remote management unit.

25. (New) An apparatus for coupling a workstation to one or more remote devices,  
said apparatus comprising:

a communication circuit for transmitting signals to and receiving signals  
from said workstation via a communication medium;

5 a serial communication circuit for transmitting serial data to and receiving  
serial data signals from one or more of said remote devices;

a keyboard, video, mouse (KVM) circuit for transmitting and receiving  
KVM signals from one or more of said remote devices; and

10 a central processing circuit for controlling transmission of said signals  
between at least one said communication circuit, said serial  
communication circuit and said KVM circuit.

26. (New) An apparatus according to claim 25, wherein said remote device is  
powered by a power source.

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27. (New) An apparatus according to claim 26, wherein said apparatus  
is connected to said power source.

28. (New) An apparatus according to claim 27, wherein said workstation controls  
20 said power source through said apparatus.

29. (New) A system according to claim 28, wherein access to said apparatus by said  
workstation is controlled by unique passwords or authentication information.

30. (New) A system according to claim 25, wherein said apparatus includes at least one redundant power supply.

31. (New) A system according to claim 25, wherein said apparatus includes at least  
5 one option menu circuit.

32. (New) An apparatus according to claim 31, wherein said option menu circuit produces an option menu including identification of said remote devices.

10 33. (New) A system according to claim 25, wherein said apparatus includes at least one header circuit for selective communication between at least one KVM port and at least one video port of said remote devices.

34. (New) A system according to claim 33, wherein said header circuit includes a  
15 video switch, and at least one receiver transmitter circuit, wherein said receiver transmitter circuit converts parallel and serial signals.

35. (New) A system according to claim 25, wherein said remote management unit includes at least one framer grabber circuit for digitizing and correcting images produced  
20 by video signals.

36. (New) An apparatus according to claim 35, wherein said framer grabber circuit converts analog video signals to digital video signals.

37. (New) A system according to claim 25, wherein said apparatus includes at least one local KVM port.

38. (New) A system according to claim 25, wherein said apparatus includes at least  
5 one video processor circuit for compressing video signals.

39. (New) An apparatus according to claim 38, wherein said video processor circuit includes at least one circuit to receive video signals from said central processing circuit.

10 40. (New) An apparatus according to claim 39, wherein said video processor circuit includes at least one pixel pusher circuit for storing red, green and blue video signal components of said video signals.

41. (New) An apparatus according to claim 38, wherein said video processor circuit  
15 includes at least one frame buffer circuit for storing video frames indicative of said video signals.

42. (New) An apparatus according to claim 38, wherein said video processor circuit compresses video signals using JBIG compression.

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43. (New) An apparatus according to claim 38, wherein said video processor circuit includes at least one memory circuit for use by a microprocessor for controlling at least one of a frame buffer circuit, pixel pusher circuit and JBIG compression.

44. (New) An apparatus according to claim 38, wherein said video processor circuit includes at least one switch for outputting signals to an Ethernet port or a modem port.

5 45. (New) An apparatus according to claim 25, wherein said apparatus includes at least one modem module for demodulating signals received by modem.

46. (New) An apparatus according to claim 25, wherein said communication medium is at least one selected from the group consisting of a LAN, a WAN, a wireless  
10 connection, a modem, a direct modem connection, and the Internet.

47. (New) An apparatus according to claim 25, wherein said signals transmitted and received by said workstation are at least one control signal selected from the group consisting of keyboard, video, mouse, serial or power.

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48. (New) A system according to claim 25, wherein said apparatus includes a reset circuit for resetting said apparatus.